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	Type	#	Hits	Search Text	DBs	Time Stamp	Comments
н	BRS	L4		"5905568".pn.	USPAT	2006/01/30 09:41	
2	BRS	LS	0	(bunch near2 graph near3 (match\$3 or similar\$5)) same (fluid\$1 or water or particle\$1)	USPAT	2006/01/30 09:43	
<sub>E</sub>	BRS	T6	0	(bunch near2 graph near3 (match\$3 or similar\$5)) same (fluid\$1 or water or particle\$1)	US- PGPUB; USPAT; EPO; JPO	2006/01/30 09:43	
4	BRS	L7	43	(bunch near2 graph) same match\$3	US- PGPUB; USPAT; EPO; JPO	2006/01/30 09:47	
Z.	BRS	T.8	1	7 and fluid	US- PGPUB; USPAT; EPO; JPO	2006/01/30	
9	BRS	L9	0	(bunch near2 graph) same match\$3 same water	US- PGPUB; USPAT; EPO; JPO	2006/01/30	

	Type	# 1	Hits	Search Text	DBs	Time Stamp	Comments
4	BRS	L10	ı	4 and (face\$1 or image\$1)	US- PGPUB; USPAT; EPO; JPO	2006/01/30 10:09	
<b>&amp;</b>	BRS	ריו	1	"6301370".pn.	USPAT	2006/01/30 10:10	
6	BRS.	L12	1	11 and (locat\$3 near3 feature\$1)	USPAT	2006/01/30 10:11	
10	BRS	L13	0	12 and ((left or right) near3 imaf\$3)	USPAT	2006/01/30 10:11	
11	BRS	L14	1	12 and (first or second or stereo\$6 or left or right)	USPAT	2006/01/30 11:08	
12	BRS	L15	0	12 and (location near2 feature\$1)	USPAT	2006/01/30 10:15	
13	BRS	L16	0	12 and (location near2 (eye\$2 or feature\$1)) same (stereo\$6 or (three adj dimension\$3) or (left near3 image\$1) or (right near3	US- PGPUB; USPAT; EPO	2006/01/30 10:16	
14	BRS	L17	428	(location near2 (eye\$2 or feature\$1)) same (stereo\$6 or (three adj dimension\$3) or (left near3 image\$1) or (right near3 image\$1))	US- PGPUB; USPAT; EPO	2006/01/30 10:21	
15	BRS	L18	65	17 same (graph oear4 (match\$3 or similar\$5))	US- PGPUB; USPAT; EPO	2006/01/30 10:18	

Comments

Type

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16

BRS

17

BRS

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BRS

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	Туре	<b>1</b>	Hits	Search Text	DBs	Time Stamp	Comments
26	BRS	130	394	graph near2 match\$3	USPAT	2006/01/30 11:11	
27	BRS	L31	4	30 same stereo\$6	USPAT	2006/01/30 11:14	
28	BRS	L32	1	"6516099".pn.	USPAT	2006/01/30 11:48	:
29	BRS	L33	48792	(feature\$1 near5 (locat\$4 or position\$3)) wavelet\$1 same imag\$3 same camera\$1	USPAT	2006/01/30 11:49	
30	BRS	L34	94	33 same (wavelet\$1 near3 transform\$6)	USPAT	2006/01/30 11:49	
31	BRS	L36	1	35 same depth	USPAT	2006/01/30 11:50	
32	BRS	L35	21	34 same ((left or right or first or second or stereo\$6) near10 image\$1)	USPAT	2006/01/30 11:52	
33	BRS	L37	0	((eye\$2 or feature\$1) near2 locat\$4) same wavelet\$1 same (image\$1 near5 camera\$1)	USPAT	2006/01/30 11:53	
34	BRS	L38	24	((eye\$2 or feature\$1) near2 locat\$4) same wavelet\$1	USPAT	2006/01/30 11:53	
35	BRS	L39	18	38 same imag\$3	USPAT	2006/01/30 11:54	

	Туре	#	Hits	Search Text	DBs	Time Stamp	Comments
	BRS	L1	1	(bunch adj graph adj matching) same (right adj camera) same (feature adj location)	US- PGPUB	2006/01/30 16:07	
7	BRS	L2		(bunch adj graph adj matching) and (right adj camera) and ((point\$1 or landmark\$1 or feature or eye\$2) adj location)	US- PGPUB; USPAT	2006/01/30 16:09	
m	BRS	L3	818	((stereo\$6 or (left or right or first or second)) near3 image\$1) same (locat\$4 or position\$3) same (feature\$1 or face\$1 or facial or eye\$2 or landmark\$1 or point\$1) same depth	US- PGPUB; USPAT	2006/01/30 16:11	
4	BRS	L4	7.7	3 same match\$3	US- PGPUB; USPAT	2006/01/30 16:11	
22	BRS	LS	31	4 same dimension\$3	US- PGPUB; USPAT	2006/01/30 16:12	
9	BRS	T6	7	5 and (wavelet\$1 near3 transform\$6)	US- PGPUB; USPAT	2006/01/30 16:14	
	BRS	L7	11	((feature\$1 or eye\$2) near2 (locat\$4 or position\$3)) with (wavelet\$1 near3 transform\$6)	US- PGPUB; USPAT	2006/01/30 16:14	

	Туре	#	Hits	Search Text	DBs	Time Stamp	Comments
<b>&amp;</b>	BRS	L8	7	7 same image\$1	US- PGPUB; USPAT	2006/01/30 16:33	
٥	BRS	E.9	37	<pre>(left nearl image\$1) same (right nearl image\$1) same ((feature\$1 or eye\$2) near3 locat\$4)</pre>	US- PGPUB; USPAT	2006/01/30 16:37	
10	BRS	L10	7	9 same depth	US- PGPUB; USPAT	2006/01/30 16:35	
11	BRS	L11	0	9 same wavelet\$1	US- PGPUB; USPAT	2006/01/30 16:36	
12	BRS	L12	П	9 and wavelet\$1	US- PGPUB; USPAT	2006/01/30 16:36	
13	BRS	L13	1630	<pre>(left nearl image\$1) same (right nearl image\$1) same ((feature\$1 or eye\$2) near\$1 locat\$4)</pre>	US- PGPUB; USPAT	2006/01/30 16:37	
14	BRS	L14	15	<pre>(left nearl image\$1) same (right nearl image\$1) same ((feature\$1 or eye\$2) adj locat\$4)</pre>	US- PGPUB; USPAT	2006/01/30 16:42	
15	BRS	L15	639	(left nearl image\$1) same (right nearl image\$1) same camera\$1	US- PGPUB; USPAT	2006/01/30 16:55	
16	BRS	116	0	15 same (feature\$1 near1 locat\$4)	US- PGPUB; USPAT	2006/01/30 16:44	

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	Type	#	Hits	Search Text	DBs	Time Stamp Comments	Comments
30	30 BRS	Т30	22	(bunch nearl graph near2 match\$3)	USPAT	2006/01/30 17:00	
31	BRS	ь31	3	30 and (water or flood or fluid)	USPAT	2006/01/30 17:11	
32	BRS	L32	0	fluid same image same (graph adj match\$3)	USPAT	2006/01/30 17:11	

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# Scholarly articles for bunch graph matching eye location image 1999



The role of topographical constraints in face recognition - by Wiskott - 8 citations An Investigation into the use of Partial-Faces for Face ... - by Gutta - 8 citations Hierarchical wavelet networks for facial feature ... - by Feris - 17 citations

# [PDF] Face Recognition by Elastic Bunch Graph Matching

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The goal of Elastic Bunch Graph Matching on a probe image is to find the ... the eyes, and the nose for location; tip of the nose, bridge of the nose, ... www.face-rec.org/algorithms/EBGM/ WisFelKrue99-FaceRecognition-JainBook.pdf - Similar pages

Face Recognition by Elastic Bunch Graph Matching - Wiskott ... Face Recognition by Elastic Bunch Graph Matching (1999) (Make Corrections) (165 citations) ... Image graph extraction is based on a novel approach, the . ... citeseer.ist.psu.edu/wiskott99face.html - 18k - Cached - Similar pages

Citations: Automatic interpretation and coding of face images ... The eye locations are important for eye gaze detectors, and for iris recognition systems. ... 7] to match statistical models of object shape to new images. ... citeseer.ist.psu.edu/context/149316/0 - 52k - Cached - Similar pages

# [PDF] Face Location by Template Matching with a Quadratic Discriminant ...

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(obtained from marking the eyes in all face images by hand). lies in a certain region centered ... burg. Face recognition by elastic bunch graph matching. ... doi.ieeecomputersociety.org/10.1109/RATFG.1999.799217 - Similar pages

## Face Recognition for Smart Environments

The system then (b) matches a given image to the face bunch graph to find the fiducial points. It creates an image graph using elastic graph matching and ... doi.ieeecomputersociety.org/10.1109/2.820039 - Similar pages [ More results from doi.ieeecomputersociety.org ]

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[PDF] The Role of Topographical Constraints in Face Recognition File Format: PDF/Adobe Acrobat - View as HTML jet in the right-eye bunch. The face bunch graph is matched to the image graph once ... bunch graph, which yields higher recognition rates than matching an ... itb1.biologie.hu-berlin.de/~wiskott/ Publications/Wis99a-Topography-PattRecLett.pdf - Similar pages

# **DLMFaceRecognition**

... the model faces and the face in the image, ie connecting the left eyes of ... Face Recognition by Elastic Bunch Graph Matching (algorithmic version of ... itb1.biologie.hu-berlin.de/ ~wiskott/Projects/DLMFaceRecognition.html - 14k -Cached - Similar pages

[DOC] WaveBase: A Facial Feature Detector Using a Superwavelet Face Database File Format: Microsoft Word - View as HTML

Figure 1 Candidates for an eye corner from a face image. We present a system, ... Face recognition by elastic bunch graph matching, IEEE Trans. Patt. ... research.microsoft.com/~igemmell/ pubs/WaveBaseTR-2002-05.doc - Similar pages

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image location gives vector of filter responses: ... Bunch Graphs. Bunch Graphs. Idea: add invariance by labelling graph nodes with collection ... cloudbreak.ucsd.edu/~triesch/ courses/275vision/lectures/objects.pdf - Similar pages

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Using the location of the eyes, the images were first, clipped, rotated, and scaled to ... recognition by elastic bunch graph matching, IEEE Transactions on ...

www.ecse.rpi.edu/~qji/Papers/frgc\_eye.pdf - Jan 28, 2006 - Similar pages

## PCA(Principle Component Analysis)

EBGM(Elastic Bunch Graph Matching) ... Face Detection from Color Images using a Fuzzy Pattern Matching Method - Me Th Od (Correct) ...

www.cc.gatech.edu/grads/k/kihwan23/thesis\_face.htm - 127k - Cached - Similar pages

## [Paper] Wavelet based Normalisation for Face Recognition

[7] L. Wiskott, JM Fellous, N. Kruger, C. Von der Malsburg, Face recognition by elastic bunch graph matching, IEEE Transactions on Pattern Analysis and ... www.actapress.com/PDFViewer.aspx?paperId=16974 - Similar pages

#### [PDF] 1449 1449..1453

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the two-dimensional image location. The responses of several such ... Recognition by Elastic Bunch Graph Matching, IEEE Trans. Pattern ...

cloudbreak.ucsd.edu/~triesch/ publications/TriMal-PAMI2001.pdf - Similar pages

#### NHK Laboratories Note No. 487

For the Bayesian MCMC system, we used a sample of 20 images from the "talking" ... C., "Face Recognition by Elastic Bunch Graph Matching," Technical Report ... www.nhk.or.ip/strl/publica/labnote/lab487.html - 42k - Cached - Similar pages

#### [PDF] <u>arXiv:cs.CV/0509081 v1 27 Sep 2005</u>

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Detection of eye locations in. unconstrained visual images. In IEEE International

Con- ... Face recognition by elastic bunch graph matching. IEEE ...

arxiv.org/pdf/cs.CV/0509081 - Similar pages

#### PDF Hierarchical Wavelet Networks for Facial Feature Localization

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research.microsoft.com/~JGemmell/pubs/FerisFG2002.pdf - Similar pages

### [PDF] Image Analysis for Face Recognition

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3.1.2 Elastic Graph Matching. To identify a new face, the face graph is positioned on the face image using elastic bunch graph, matching, ...

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Image processing, face segmentation, detection of local oriented edges, Gaussian, facial landmarks, human- ... bunch graph matching. IEEE Trans. on Pattern ...

wscg.zcu.cz/wscg2005/Papers\_2005/Full/K59-full.pdf - Similar pages

A face location and recognition system based on tangent distance

... C. von der Malsburg, Face recognition by elastic bunch graph matching, ... 10 Huang W. and Mariani R. Face Detection and Precise Eyes Location. ...

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IPDFI An efficient method to detect facial fiducial points for face ...

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This method has been tested on 2500 eye sub-images ... well known approaches such as the Elastic Bunch Graph. Matching [8], the PCA [6], or LDA [9], ...

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Given an eye sub-image, at first the iris is localized, ... Face recognition by

elastic bunch, graph matching. In LC Jain et al., editor, In- ...

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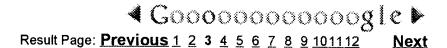
graph matching. In Proceedings of the IJCNN International Joint ...

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